

**Annual Report 2012**

**Production Sector**

OMB Control No. 2060-0328

Pending OMB Approval



**Company Information**

Company Name: **EnCana Oil & Gas (USA) Inc.**

Gas STAR Contact: **Richard Ayala**

Title **Environmental Engineer**

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E-mail: **Richard.Ayala@encana.com**

Company Information Updated: **No**

**Activities Reported**

**BMP1: No   BMP2: No   BMP3: Yes**

Total Methane Emission Reductions Reported This Year: **168,014**

Previous Years' Activities Reported: **No**

**Period Covered by Report**

From: **01/01/2012**

To: **12/31/2012**

☒ I hereby certify the accuracy of the data contained in this report.

**Additional Comments**

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BMP3: Partner Reported Opportunities (PROs)

**Current Year Activities**

**A. Facility/location identifier information:**

**MCBU**

**B. Description of PRO**

Please specify the technology or practice that was implemented:

**Artificial lift: install plunger lifts (10 years)**

Please describe how your company implemented this PRO:

**Plunger lift added to 14 wells**

**C. Level of Implementation**

**Number of units installed: 14 units**

**D. Methane Emissions Reduction**

Methane Emissions Reduction: **6,274 Mcf/year**

Basis for the emissions reduction estimate: **Calculation using manufacturer specifications**

**E. Are these emissions reductions a one-year reduction or a multi-year reduction?**

One-year

☒ Multi-year

**If Multi-year:**

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 43,918

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

SRBU

B. Description of PRO

Please specify the technology or practice that was implemented:

Convert gas pneumatic controls to instrument air (10 years)

Please describe how your company implemented this PRO:

Most gathering and processing facilities use instrument air

C. Level of Implementation

Number of units installed: 9 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 29,526 Mcf/year

Basis for the emissions reduction estimate: Other

Calculation using number of devices

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

✓ Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 206,682

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Division-wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Convert natural gas-driven chemical pumps (10 years)

Please describe how your company implemented this PRO:

New solar powered chemical injection pumps

C. Level of Implementation

Number of units installed: 42 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 8,569 Mcf/year

Basis for the emissions reduction estimate: Calculation using manufacturer specifications

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 59,983

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

**Current Year Activities**

**A. Facility/location identifier information:**

NRBU

**B. Description of PRO**

Please specify the technology or practice that was implemented:

**DI&M: leak detection using IR camera/optical imaging**

Please describe how your company implemented this PRO:

**Monthly FLIR camera inspections at all tank batteries in the Jonah field**

**C. Level of Implementation**

**Frequency of activity or practice: 12 times/year**

**D. Methane Emissions Reduction**

Methane Emissions Reduction: **42,318 Mcf/year**

Basis for the emissions reduction estimate: **Actual field measurement**

**E. Are these emissions reductions a one-year reduction or a multi-year reduction?**

☒ One-year

☐ Multi-year

**If Multi-year:**

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.



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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 296,226

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Middlefork CS

B. Description of PRO

Please specify the technology or practice that was implemented:

Install electric compressors (10 years)

Please describe how your company implemented this PRO:

Electric compression was installed years ago.

C. Level of Implementation

Number of units installed: 8 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 81,284 Mcf/year

Basis for the emissions reduction estimate: Calculation using manufacturer specifications

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

✓ Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved: \$ 568,988

\$ / Mcf used: \$ 7.00

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of practice/activity (including equipment and labor)

**Additional Comments**

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU

B. Description of PRO

Please specify the technology or practice that was implemented:

Replace gas starters with air or nitrogen (10 years)

Please describe how your company implemented this PRO:

Gas starters were replaces with air starts on 21 cooler engines

C. Level of Implementation

Number of units installed: 21 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 43 Mcf/year

Basis for the emissions reduction estimate: Other

Estimated

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

**G. Total Value of Gas Saved**

Value of Gas Saved:    **\$ 301**

\$ / Mcf used:    **\$ 7.00**

**H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: \_\_\_\_\_

**Previous Years' Activities**

<b>Year</b>	<b>Frequency of practice/activity or # of Installations</b>	<b>Total Cost * (\$)</b>	<b>Estimated Reductions (Mcf/Yr)</b>	<b>Value of Gas Saved (\$)</b>

\* Total cost of practice/activity (including equipment and labor)

**Additional Comments**

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**Additional Accomplishments**